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NCBC GULFPORT
5090.3a

TRANSMITTAL LETTER FOR CARBON MONOXIDE, OXYGEN AND CARBON DIOXIDE STRIP CHART DATA FROM DECEMBER VERIFICATION TEST BURNS NCBC GULFPORT MS

9/18/1987

IDAHO NATIONAL ENGINEERING LABORATORY

Idaho National Engineering Laboratory

September 18, 1987

Ms. Carone Falconer
EPA Region IV
345 Cortland St. NE
Atlanta, GA 30365

TRANSMITTAL OF CARBON MONOXIDE DATA DJH-15-87

Dear Ms. Falconer:

Attached for your review is a copy of the carbon monoxide, oxygen, and carbon dioxide strip chart data from the December Verification test burns conducted at NCBC Gulfport, MS. Also attached is an explanation of the footnotes shown in the strip chart figures.

Major Stoddart (USAF/AFESC) will send you a duplicate transmittal with a formal certification statement next week.

If you have any questions, please call me at (FTS) 583-9959.

Very truly yours,

Daniel J. Haley
Sr. Programs Specialist
Hazardous Waste Projects

Attachments:
As Stated

cc: Maj. T. L. Stoddart, USAF/AFESC
D. M. Knudson, Ensco
J. O. Zane, EG&G Idaho (w/o attach)

VERIFICATION TEST BURN
STACK GAS DATA
NCBC FULL SCALE DEMONSTRATION PROJECT

Listed herein are the footnotes and explanations pertaining to Figures 1, 2, and 3 which show the stack gas data for the three days of verification testing in December, 1986.

The carbon monoxide data is highlighted in yellow for the convenience of the reviewer. A second unmarked set of figures is also attached.

Footnotes:

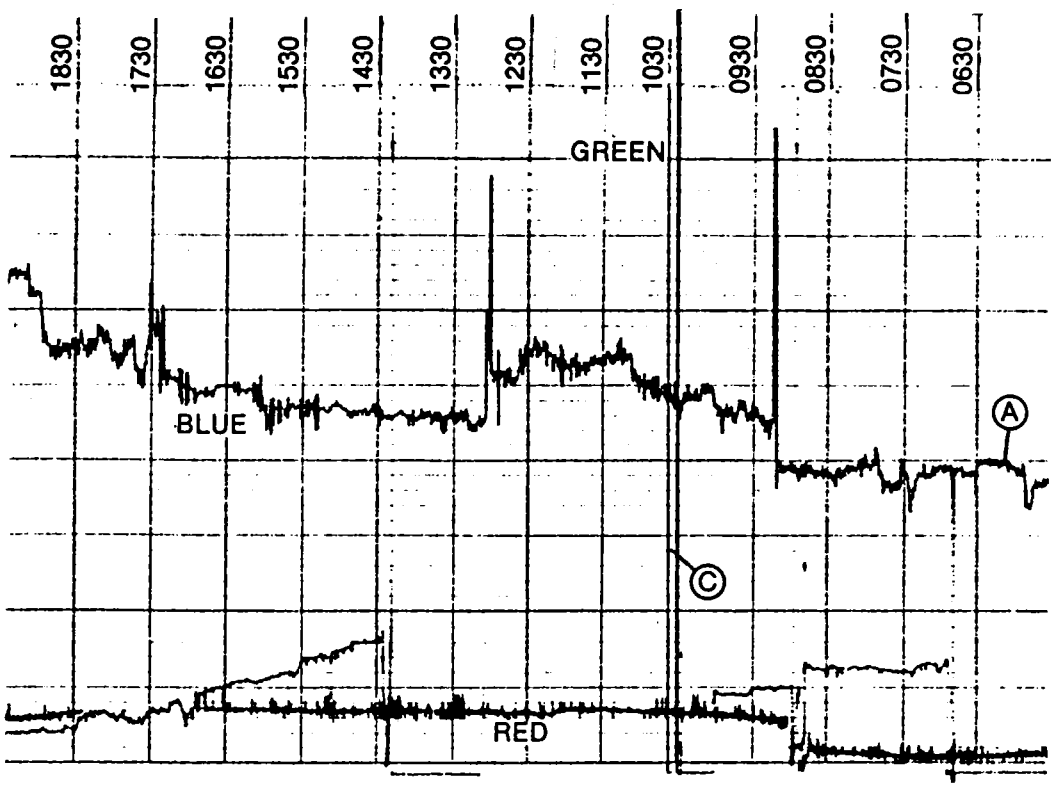
A. O_2 infiltration into the sampling system was due to a leaking sample cooler. Oxygen was infiltrating the sample system and causing abnormally high O_2 measurements. The problem was solved on the morning of December 7 by bypassing the sample cooler. At the same time, a broken wire to the Isaac 5000 data logging system was causing intermittent problems with the computer O_2 data logging. This problem was repaired on the night of December 6.

B. The oxygen infiltration problem was solved on December 7 thus resulting in corrected oxygen readings

C. CO_2 analyzer failure. The carbon dioxide analyzer failed on December 6 due to moisture infiltration into the sampling system caused by the same leaking sample cooler as mentioned in "A" above.

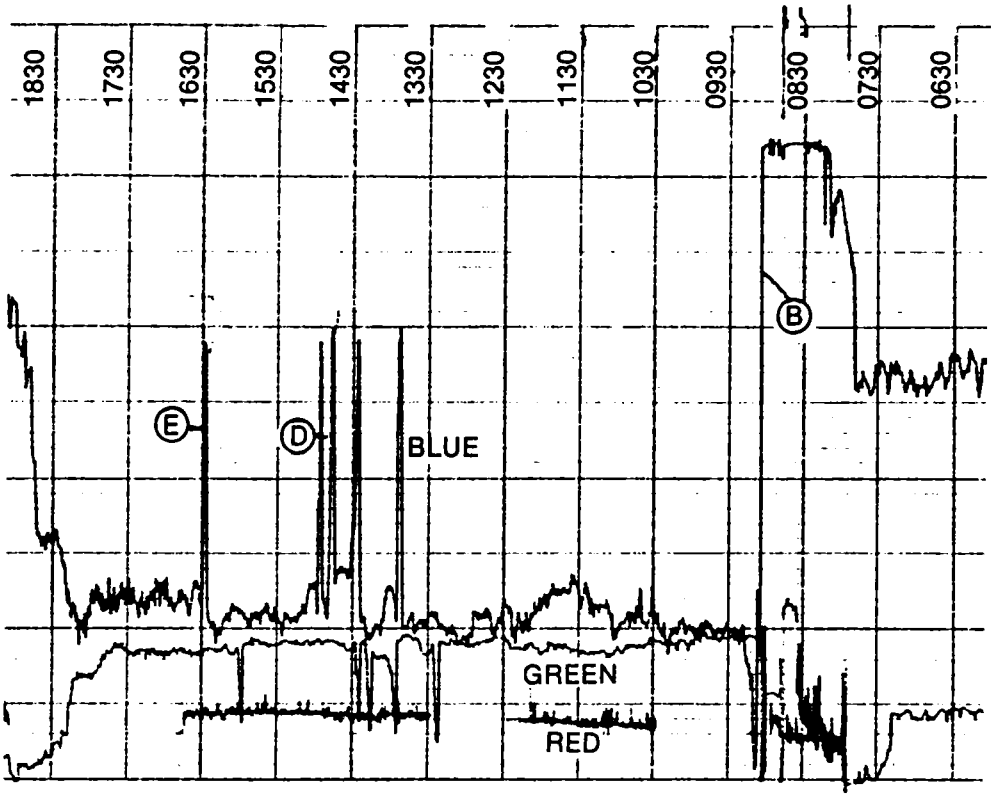
D. The operations log book indicated three occurrences of a loss of secondary combustor flame at approximately 14:30.

E. At 16:05 a flame out condition occurred in the secondary combustor.



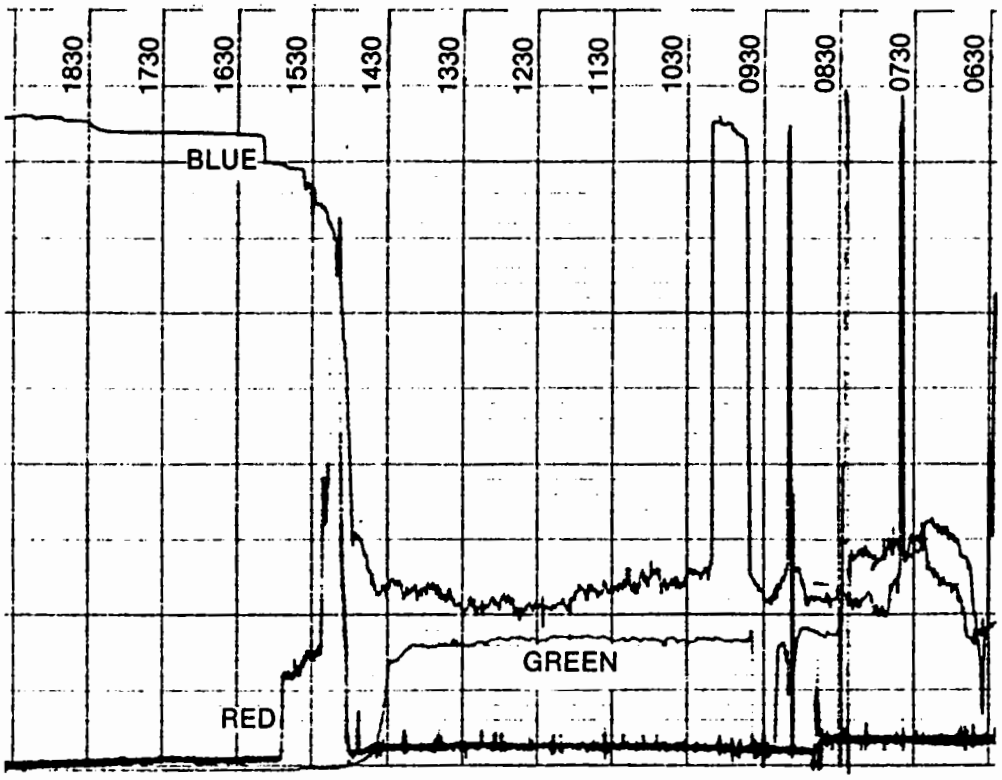
BLUE- O_2 - 0-25%
RED- CO - 0-500 PPM
GREEN- CO_2 - 0-50%

Dec. 6th, 1986



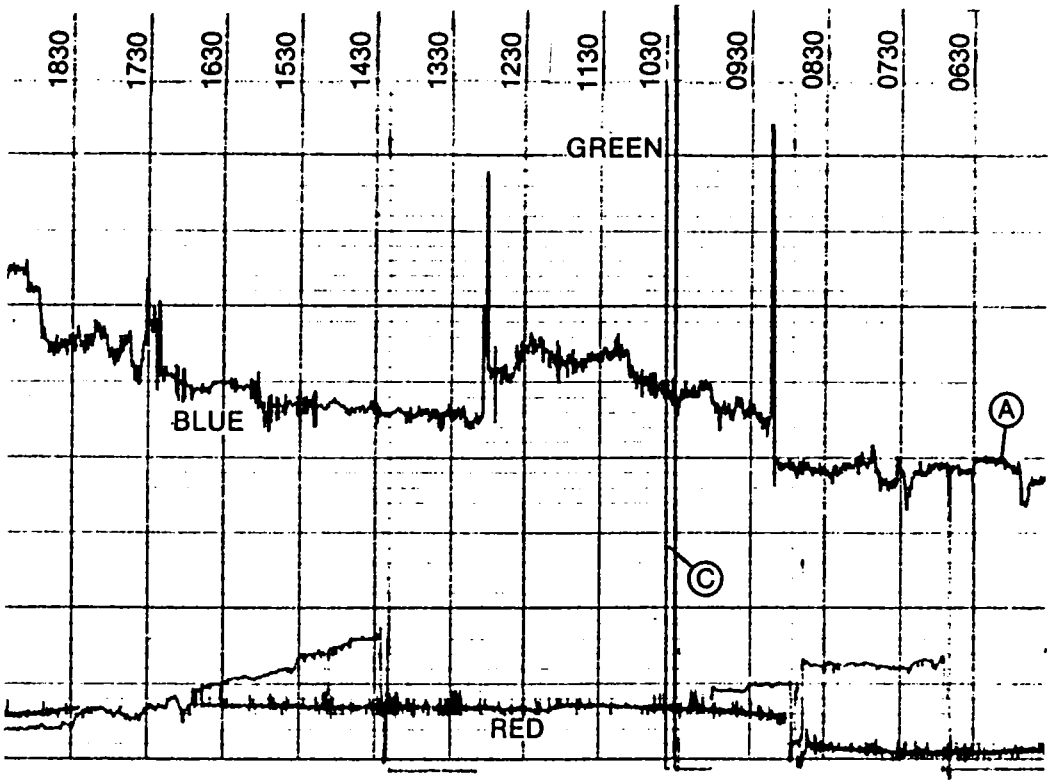
BLUE- O_2 - 0-25%
RED- CO - 0-500 PPM
GREEN- CO_2 - 0-50%

Dec. 7th, 1986



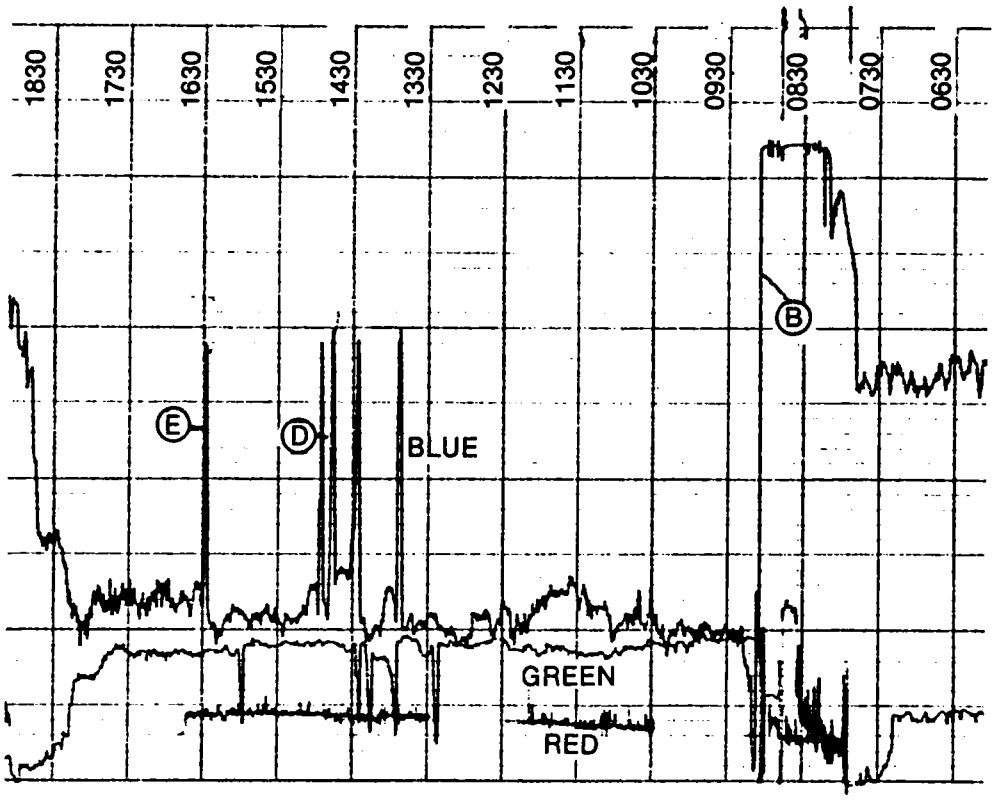
Dec. 15th, 1986

BLUE- O_2 - 0-25%
RED- CO - 0-500 PPM
GREEN- CO_2 - 0-50%



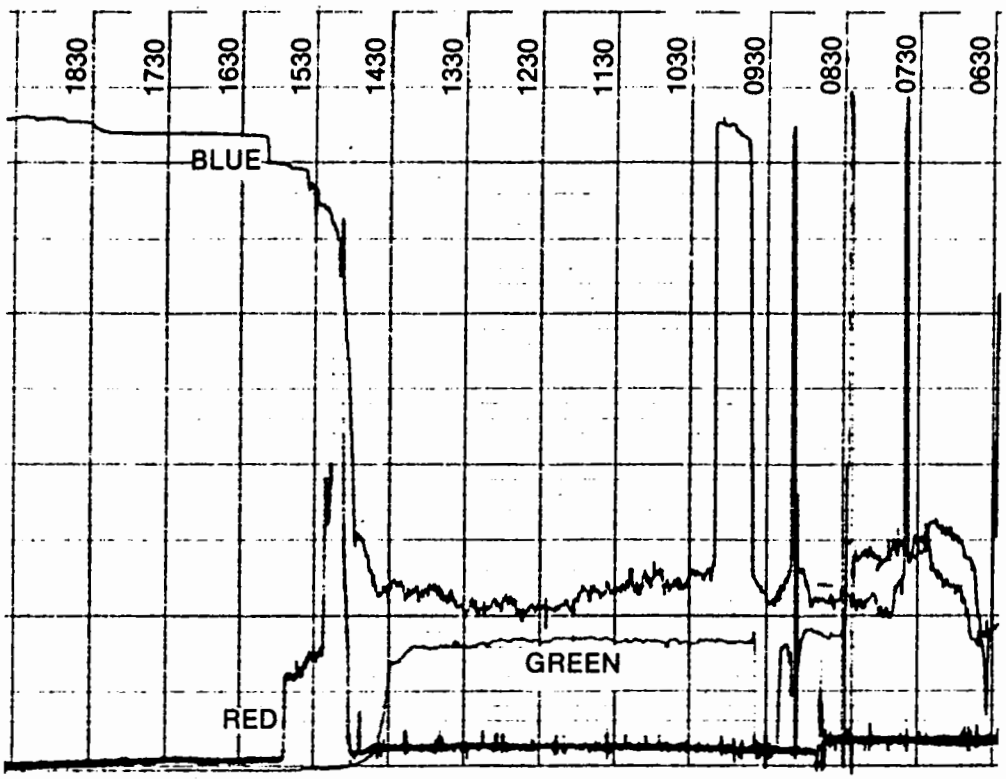
BLUE- O_2 - 0-25%
RED- CO - 0-500 PPM
GREEN- CO_2 - 0-50%

Dec. 6th, 1986



BLUE- O_2 - 0-25%
RED- CO - 0-500 PPM
GREEN- CO_2 - 0-50%

Dec. 7th, 1986



Dec. 15th, 1986

BLUE- O_2 - 0-25%
RED- CO - 0-500 PPM
GREEN- CO_2 - 0-50%